

In the Claims

1. (Previously Presented) A method of detecting or monitoring cancer comprising the step of detecting or monitoring elevated levels of (a) a nucleic acid molecule comprising a sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, and SEQ ID NO: 3 in a sample from a patient or (b) a protein or peptide comprising an amino acid sequence encoded by a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3.
2. (Previously Presented) A method according to claim 1 wherein an isolated nucleic acid molecule comprising a sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3 is used in the step of detecting or monitoring.
3. (Previously Presented) A method according to claim 1 wherein a nucleic acid probe which is capable of hybridising under high stringency conditions to an isolated nucleic acid molecule comprising a sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3 is used in the step of detecting or monitoring.
4. (Previously Presented) A method of detecting or monitoring cancer according to claim 1 wherein a nucleic acid molecule or probe comprising a sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3 is used in combination with a reverse transcription polymerase chain reaction (RT-PCR).
5. (Previously Presented) A method of detecting or monitoring cancer according to claim 1 wherein in the step of detecting or monitoring employs a nucleic acid molecule or probe which is capable of hybridising under high stringency conditions to an isolated nucleic acid molecule comprising a sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3 in combination with a reverse transcription polymerase chain reaction (RT-PCR).

6. (Previously Presented) A method according to claim 1 comprising the use of an antibody selective for said protein or peptide to detect the protein or peptide.
7. (Previously Presented) A method according to claim 6 wherein an Enzyme-linked Immunosorbant Assay (ELISA) is used to detect the protein or peptide.
8. (Original) A method according to claim 1, wherein the cancer is a gastro- intestinal cancer.
9. (Previously Presented) A kit comprising
- (a) an isolated nucleic acid molecule comprising a sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3;
 - (b) an antibody selective for a protein or peptide comprising an amino acid sequence encoded by a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, and SEQ ID NO: 3 or
- a nucleic acid probe which is capable of hybridising under high stringency conditions to an isolated nucleic acid molecule comprising a sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3.
10. (Previously Presented) A method of prophylaxis or treatment of cancer comprising administering to a patient a pharmaceutically effective amount of
- (a) nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, and pharmaceutically effective fragments thereof,
 - (b) a nucleic acid molecule hybridisable under high stringency conditions to a nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, and pharmaceutically effective fragments thereof,
 - (c) a protein or peptide comprising an amino acid sequence encoded by a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, and pharmaceutically effective fragments thereof, or
 - (d) of an antibody capable of specifically binding a protein or peptide comprising an amino acid sequence encoded by a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3.

11. (Original) A method according to claim 10, wherein the cancer is a gastro-intestinal cancer.
12. (Previously Presented) A vaccine comprising
- (a) a nucleic acid molecule having a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, and pharmaceutically effective fragments thereof; and a pharmaceutically acceptable carrier, or
- (b) a protein or peptide comprising an amino acid sequence encoded by a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, and pharmaceutically effective fragments thereof; and a pharmaceutically acceptable carrier.
13. (Currently Amended) An isolated mammalian nucleic acid molecule which codes for the following amino acid sequence:
- MSRVVPGQFDDADSSDSENRLKTVKEKDDILFEDLQDNVNENG
EGEIEDEEEEGYDDDDDDWDWDEGVGKLAKGYVWNGGSPQANRQTSDDSSAKMSTPA
DKVLRKFENKINLDKLNVTDSVINKVTEKSRQKEADMYRIKDKADRATVEQVLDPRTR
MILFKMLTRGIITEINGCISTGKEANVYHASTANGESRAIKYKTSILVFKDRDKYVS
GEFRFRHGYCKGNPRKMVKTWAEKEMRNLRLNTAEIPCPEPIMLRSHVLVMSFIGKD
DMPAPLLKNVQLSESKARELYLQVIQYMRRMYQDARLVHADLSEFNMLYHGGGVY 440
VSQSVEHDHPHALEFLRKDCANVNDFFMRHSVAVMTVRELFEFVTDPSTHENMDAYL
SKAMEIASQRTKEERSSQDHVDEEVFKRAYIPRTLNEVKNYERDMDIIMKLKEEDMAM
NAQQDNILYQTVTGLKKDLSGVQKVPALLENQVEERTCSDSEDIGSSECSDTDSE
DHARPKKHTTDPDIDKKERKKMVKEAQREKRKNKIPKHVKKRKEKTAKTKKGK
or a variant or a fragment thereof which encodes a prostate-associated antigen which is expressed in higher than normal concentrations in prostate cancer cells.

14. (Original) A vector comprising an isolated mammalian nucleic acid molecule according to claim 13.
15. (Original) A nucleic acid molecule comprising at least 15 nucleotides, the nucleic acid molecule being capable of hybridising to a molecule according to claim 13 under high stringency conditions.
16. (Original) An isolated protein or peptide comprising an amino acid sequence obtainable from a nucleic acid molecule according to claim 13.
17. (Original) An isolated protein or peptide comprising an amino acid sequence obtainable from a nucleic acid molecule according to claim 14.
18. (Original) An isolated protein or peptide comprising an amino acid sequence obtainable from a nucleic acid molecule according to claim 15.
- 19-20. (Canceled)